Appl. No. 10/723,441 Supplemental Amendment

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) A <u>magnetic</u> pickup for a stringed musical instrument, where the instrument includes strings suspended between a string support structure that includes a sound board, comprising:
- a primary coil <u>rigidly fixed to the sound board of the musical instrument</u> magnetically coupled to a string of the musical instrument and fixedly attached to a string support structure;
- at least one magnet rigidly fixed to the primary coil that generates a static magnetic field along at least one pole piece encased within the primary coil;
- a secondary coil <u>located spaced apart from the primary coil and suspended to move relative to the primary coil; magnetically coupled to the primary coil, the secondary coil further coupled to the primary coil by a flexible suspension mechanism</u>
 - wherein the primary coil is configured to generate a string signal; and wherein the secondary coil is configured to generate a body signal.
- 2. (Original) The pickup of claim 1, wherein the primary coil and the secondary coil are electrically coupled in a noise-cancellation circuit.
- 3. (Original) The pickup of claim 2, wherein the primary coil further comprises a primary coil winding wound in the same direction as a secondary coil winding in the secondary coil.
 - 4. (Currently Amended) The pickup of claim 1, further comprising wherein: the string support structure includes a soundboard; and the primary coil is fixedly attached to the soundboard
- a clamping mechanism attached to the primary coil that enables the primary coil to be removably attached to the sound board.

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- 5. (Currently Amended) The pickup of claim [[4]]1, wherein:
 the soundboard includes a soundhole and the pickup is mounted in the soundhole;
 with the primary coil is positioned between the secondary coil and the
 stringsextending into the musical instrument string support structure.
- 6. (Currently Amended) The pickup of claim 1, wherein the <u>soundboardstring</u> support structure includes a recess and the primary coil is fixedly mounted to a surface of the <u>soundboardstring support structure</u> with the secondary coil extending into the recess.
- 7. (Original) The pickup of claim 1, wherein the secondary coil has a resonant frequency in the range from 100 Hz to 500 Hz.
- 8. (Original) The pickup of claim 1, wherein the flexible suspension mechanism has spring constant in the range from 1x10⁴ N/m to 1x10⁶ N/m.
- 9. (Original) The pickup of claim 8, wherein the secondary coil has a mass in the range from 15 grams to 25 grams.

10. - 23. (Cancelled)

24. (New) A magnetic pickup for a stringed musical instrument, where the instrument includes strings suspended between a string support structure that includes a sound board, comprising:

a primary coil rigidly fixed to the sound board;

at least one magnet rigidly fixed to the primary coil that generates a static magnetic field along at least one pole piece encased within the primary coil;

a secondary coil suspended below the primary coil via a suspension mechanism;

wherein the suspension mechanism suppresses relative movement of the secondary coil with respect to the primary coil, when the sound board is oscillating in the ring mode.

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25. (New) The magnetic pickup of claim 24, wherein:

the suspension mechanism is a pillar;

the centerline of the primary coil defines a Z axis;

the primary coil is elongated in a direction that defines an X axis, which intersects the Z axis and is perpendicular to the Z axis;

the pillar is attached to the primary coil at a point that is centered with respect to the X axis; and

the pillar is attached to the secondary coil at a point that is centered with respect to the X axis.

26. (New) The magnetic pickup of claim 25, wherein:

a Y axis is defined in a direction that is perpendicular to the X axis and the Z axis; the pillar is attached to the primary coil at a point on the Y axis offset from the intersection of the X axis and the Z axis; and

the pillar is attached to the secondary coil at a point similarly offset along the Y axis.

- 27. (New) The magnetic pickup of claim 24, wherein the secondary coil has a resonant frequency in the range from 100 Hz to 500 Hz.
- 28. (New) The magnetic pickup of claim 24, wherein the suspension mechanism has spring constant in the range from $1x10^4$ N/m to $1x10^6$ N/m.
- 29. (New) The magnetic pickup of claim 24, wherein the secondary coil has a mass in the range from 15 grams to 25 grams.
- 30. (New) The magnetic pickup of claim 24, wherein the suspension mechanism is a pillar constructed from ABS plastic.